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High Performance Computing in Science and Engineering '14 Wolfgang E. Nagel 2015-02-14 This book presents the state-of-the-art in supercomputer simulation. It includes the latest findings from leading researchers using systems from the High Performance Computing Center Stuttgart (HLRS). The reports cover all fields of computational science and engineering ranging from CFD to computational physics and from chemistry to computer science with a special emphasis on industrially relevant applications. Presenting findings of one of Europe's leading systems, this volume covers a wide variety of applications that deliver a high level of sustained performance. The book covers the main methods in high-performance computing. Its outstanding results in achieving the best performance for production codes are of particular interest for both scientists and engineers. The book comes with a wealth of color illustrations and tables of results.

Refrigeration, Air Conditioning and Heat Pumps Fabio Polonara 2021-02-11 Refrigeration, air conditioning, and heat pumps (RACHP) have an important impact on the final energy uses of many sectors of modern society, such as residential, commercial, industrial, transport, and automotive. Moreover, RACHP also have an important environmental impact due to the working fluids that deplete the stratospheric ozone layer, which are being phased out according to the Montreal Protocol (1989). Last, but not least, high global warming potential (GWP), working fluids (directly), and energy consumption (indirectly) are responsible for a non-negligible quota of greenhouse gas (GHG) emissions in the atmosphere, thus impacting climate change.

Understanding FACTS Narain G. Hingorani 2000 The Flexible AC Transmission System (FACTS)--a new technology based on power electronics--offers an opportunity to enhance controllability, stability, and power transfer capability of ac transmission systems. Two pioneers in the field provide in-depth discussions on power semiconductor devices, voltage-sourced and current-sourced converters, specific FACTS controllers, and major FACTS applications in the U.S.

Flotation Technology Lawrence K. Wang 2010-06-09 The past 30 years have seen the emergence of a growing desire worldwide that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution – air, water, soil, and noise. Since pollution is a direct or indirect consequence of waste, the seemingly idealistic demand for “zero discharge” can be construed as an unrealistic demand for zero waste. However, as long as waste continues to exist, we can only attempt to abate the subsequent pollution by converting it to a less noxious form. Three major questions usually arise when a particular type of pollution has been identified: (1) How serious is the pollution? (2) Is the technology to abate it available? and (3) Do the costs of abatement justify the degree of abatement achieved? This book is one of the volumes of the Handbook of Environmental Engineering series. The principal intention of this series is to help readers formulate answers to the last two questions above. The traditional approach of applying tried-and-true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a “methodology of pollution control.” However, the realization of the ever-increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken.

Manual of Economic Analysis of Chemical Processes Alain Chauvel 1981

Introduction to Reliability Engineering E. E. Lewis 1995-11-15 Using an interdisciplinary perspective, this outstanding book provides an introduction to the theory and practice of reliability engineering. This revised edition contains a number of improvements: new material on quality-related methodologies, inclusion of spreadsheet solutions for certain examples, a more detailed treatment which ties the load-capacity approach to reliability to failure rate methodology; a new section dealing with safety hazards of products and equipment.

Quality Control Methods for Medicinal Plant Materials World Health Organization 1998 A collection of test procedures for assessing the identity, purity, and content of medicinal plant materials, including determination of pesticide residues, arsenic and heavy metals. Intended to assist national laboratories engaged in drug quality control, the manual responds to the growing use of medicinal plants, the special quality problems they pose, and the corresponding need for international guidance on reliable methods for quality control. Recommended procedures - whether involving visual inspection or the use of thin-layer chromatography for the qualitative determination of impurities - should also prove useful to the pharmaceutical industry and pharmacists working with these materials.

Food Safety Richard J. Marshall 2006-12-22 Food Safety: A Practical and Case Study Approach, the first volume of the ISEKI-Food book series, discusses how food quality and safety are connected and how they play a significant role in the quality of our daily lives. Topics include methods of food preservation, food packaging, benefits and risks of microorganisms and process safety.

Scientific Detectors for Astronomy P. Amico 2006-04-18 Dear Friends, It seems like it was only yesterday that we drove the last of you to the airport. The memories and the spirit of the Scientific Detectors for Astronomy Workshop (SDW2002) remain fresh and strong. For us, this was a very special event, a great gathering of what may be one of the friendliest and most cooperative technical communities on our little planet. We have tried to capture the spirit of the Workshop in these Proceedings and we hope you are able to relive your week in Hawaii. For those readers who did not attend, we invite you into this community. As you probably noticed, there is a new name on the cover: Jenna Beletic was the ace up our sleeve for these Proceedings. As a summer intern at Keck, she took up the task of organizing, proofreading, editing and formatting the papers. She also made the graphics (her artistic talents shine on pages xxxiii and xxxv), contacted authors and prepared the mountain of paperwork which goes with producing a book. Jenna's enthusiasm at learning, her passion for the job and creativity (e. g. find 100 ways to get Paola and Jim to do their jobs) have been a motivating addition to our team of “old workshop foxes”..... and a source for a good deal of paternal pride. We are honoured to have her as a fellow editor.

Advanced Engineering Mathematics Taneja 2007-01-01 The text has been divided in two volumes: Volume I (Ch. 1-13) & Volume II (Ch. 14-22). In addition to the review material and some basic topics as discussed in the opening chapter, the main text in Volume I covers topics on infinite series, differential and integral calculus, matrices, vector calculus, ordinary differential equations, special functions and Laplace

transforms. Volume II covers topics on complex analysis, Fourier analysis, partial differential equations and statistics. The present book has numerous distinguishing features over the already existing books on the same topic. The chapters have been planned to create interest among the readers to study and apply the mathematical tools. The subject has been presented in a very lucid and precise manner with a wide variety of examples and exercises, which would eventually help the reader for hassle free study.

Drilling Engineering Neal Jay Adams 1985

Solutions Manual to Accompany Engineering Economics for Capital Investment Analysis Tung Au 1983

British Bat Calls Jon Russ 2012-07-02 Knowledge of bat echolocation and social calls, and identification using ultrasonic 'bat detectors' and sound analysis software, has grown significantly in the last decade. In this practical guide Jon Russ and contributors (Kate Barlow, Philip Briggs & Sandie Sowler) present the latest information in a clear and concise manner. The book covers topics including the properties of sound, how bats use sound, bat detectors and recording devices, analysis software, and call analysis. For each species found in the British Isles, information is given on distribution, emergence times, flight and foraging behaviour, habitat, echolocation calls including parameters for common measurements, and social calls. Calls are described in the context of the different technologies employed to record them (heterodyne, frequency division and time expansion). Various sonograms for each species are displayed in BatSound and AnaLookW. A species echolocation guide is included.

Elements of Power Electronics Philip Krein 2015-11-05 Building on the tradition of its classic first edition, the long-awaited second edition of Elements of Power Electronics provides comprehensive coverage of the subject at a level suitable for undergraduate engineering students, students in advanced degree programs, and novices in the field. It establishes a fundamental engineering basis for power electronics analysis, design, and implementation, offering broad and in-depth coverage of basic material. Streamlined throughout to reflect new innovations in technology, the second edition also features updates on renewable and alternative energy. Elements of Power Electronics features a unifying framework that includes the physical implications of circuit laws, switching circuit analysis, and the basis for converter operation and control. It discusses dc-dc, ac-dc, dc-ac, and ac-ac conversion tasks and principles of resonant converters and discontinuous converters. The text also addresses magnetic device design, thermal management and drivers for power semiconductors, control system aspects of converters, and both small-signal and geometric controls. Models for real devices and components-including capacitors, inductors, wire connections, and power semiconductors-are developed in depth, while newly expanded examples show students how to use tools like Mathcad, Matlab, and Mathematica to aid in the analysis and design of conversion circuits. Features: *More than 160 examples and 350 chapter problems support the presented concepts* An extensive Companion Website includes additional problems, laboratory materials, selected solutions for students, computer-based examples, and analysis tools for Mathcad, Matlab, and Mathematica

Estimating Building Costs Calin M. Popescu 2003-04-22 Companies live or die on the basis of estimating their costs. Preparing estimates and bidding for new jobs is a complex and often costly process. There is no substitute for on the job training -- until now. Drawing on the authors' combined experience of more than 70 years, Estimating Building Costs presents state-of-the-art principles, practices, and techniques for assessing these expenditures that can be applied regardless of changes in the costs of materials, equipment, and labor. The book is an efficient and practical tool for developing contracts or controlling project costs. The authors cover the major components of the direct cost: estimating procedures and cost trends related to materials, construction equipment, and skilled and unskilled labor. They describe various types of building estimates encountered during the lifecycle of a project, as well as the role and accuracy of each. The book provides an overview of the industry, cost indexes in use, approaches to preparing a detailed estimate, and an in-depth description of the organization and function of the estimating group. Including CSI Master Format and UniFormat codes, estimating forms, a list of available estimating software packages, a detailed construction site and investigation report, the book provides a cost estimating methodology that readers can tailor to their own organizational needs.

Construction Equipment Management for Engineers, Estimators, and Owners Douglas D. Gransberg 2006-06-13 Based on the authors' combined experience of seventy years working on projects around the globe, Construction Equipment Management for Engineers, Estimators, and Owners contains hands-on, how-to information that you can put to immediate use. Taking an approach that combines analytical and practical results, this is a valuable reference for a wide range of individuals and organizations within the architecture, engineering, and construction industry. The authors delineate the evolution of construction equipment, setting the stage for specific, up-to-date information on the state-of-the-art in the field. They cover estimating equipment ownership, operating cost, and how to determine economic life and replacement policy as well as how to schedule a production-driven, equipment-intensive project that achieves target production rates and meets target equipment-related unit costs and profits. The book includes a matrix for the selection of equipment and identifies common pitfalls of project equipment selection and how to avoid them. It describes how to develop an OSHA job safety analysis for an equipment-intensive project, making this sometimes onerous but always essential task easier. The authors' diverse and broad experience makes this a book that ranges from the rigorous mathematical analysis of equipment operations to the pragmatic discussion of the equipment maintenance programs needed to guarantee that the production predicted in a cost estimate occurs.

Encyclopedia of Modern U.S. Military Weapons Timothy M. Laur 1998-07-01 Covers the weapons, vehicles, equipment, and systems used by the United States military

Drilling Fluids Processing Handbook ASME Shale Shaker Committee 2011-03-15 Written by the Shale Shaker Committee of the American Society of Mechanical Engineers, originally of the American Association of Drilling Engineers, the authors of this book are some of the most well-respected names in the world for drilling. The first edition, Shale Shakers and Drilling Fluid Systems, was only on shale shakers, a very important piece of machinery on a drilling rig that removes drill cuttings. The original book has been much expanded to include many other aspects of drilling solids control, including chapters on drilling fluids, cut-point curves, mud cleaners, and many other pieces of equipment that were not covered in the original book. Written by a team of more than 20 of the world's foremost drilling experts, from such companies as Shell, Conoco, Amoco, and BP There has never been a book that pulls together such a vast array of materials and depth of topic coverage in the area of drilling fluids Covers quickly changing technology that updates the drilling engineer on all of the latest equipment, fluids, and techniques

Measurement of Thermal Radiation Properties of Solids Joseph C. Richmond 1963

Automotive Engineering David Crolla 2009-08-13 A one-stop reference for automotive and other engineers involved in vehicle and automotive technologies. The book provides essential information on each of the main automotive systems (engines; powertrain and chassis; bodies; electrical systems) plus critical external factors that engineers need to engage with, such as hybrid technologies, vehicle efficiency, emissions control and performance optimization. * Definitive content by the leading authors in the field * A thorough resource, providing all the essential material needed by automotive and mechanical engineers on a day-to-day basis * Fundamentals, key techniques, engineering best practice and know-how together in one quick-reference sourcebook * Focuses on what engineers need to know: engineering fundamentals, key associated technologies, environmental and efficiency engineering, and sustainability, as well as market-driven requirements such as reliability, safety, and comfort * Accompanied by multi-body dynamics and tire dynamic modeling software

Private Denver Nicks 2012 Presents the life of the soldier who committed a massive national security breach by releasing thousands of classified documents to WikiLeaks, exploring the influence of his political views and gender identity issues on his actions.

Control of Electrical Drives Werner Leonhard 2012-12-06 Electrical drives play an important part as electromechanical energy converters in transportation, materials handling and most production processes. This

book presents a unified treatment of complete electrical drive systems, including the mechanical parts, electrical machines, and power converters and control. Since it was first published in 1985 the book has found its way onto many desks in industry and universities all over the world. For the second edition the text has been thoroughly revised and updated, with the aim of offering the reader a general view of the field of controlled electrical drives, which are maintaining and extending their importance as the most flexible source of controlled mechanical energy.

Electrical Engineering Regulations United States. Coast Guard 1977

The Police Patrol Car Rosalie T. Ruegg 1978

Bats in the Anthropocene: Conservation of Bats in a Changing World Christian C. Voigt 2015-12-07 This book focuses on central themes related to the conservation of bats. It details their response to land-use change and management practices, intensified urbanization and roost disturbance and loss. Increasing interactions between humans and bats as a result of hunting, disease relationships, occupation of human dwellings, and conflict over fruit crops are explored in depth. Finally, contributors highlight the roles that taxonomy, conservation networks and conservation psychology have to play in conserving this imperilled but vital taxon. With over 1300 species, bats are the second largest order of mammals, yet as the Anthropocene dawns, bat populations around the world are in decline. Greater understanding of the anthropogenic drivers of this decline and exploration of possible mitigation measures are urgently needed if we are to retain global bat diversity in the coming decades. This book brings together teams of international experts to provide a global review of current understanding and recommend directions for future research and mitigation.

Naval Construction Forces Manual, 1969

Historic Scientific Instruments in Denmark Hemming Andersen 1996

Switching in Electrical Transmission and Distribution Systems René Smeets 2015-01-05 Switching in Electrical Transmission and Distribution Systems presents the issues and technological solutions associated with switching in power systems, from medium to ultra-high voltage. The book systematically discusses the electrical aspects of switching, details the way load and fault currents are interrupted, the impact of fault currents, and compares switching equipment in particular circuit-breakers. The authors also explain all examples of practical switching phenomena by examining real measurements from switching tests. Other highlights include: up to date commentary on new developments in transmission and distribution technology such as ultra-high voltage systems, vacuum switchgear for high-voltage, generator circuit-breakers, distributed generation, DC-interruption, aspects of cable systems, disconnector switching, very fast transients, and circuit-breaker reliability studies. Key features: Summarises the issues and technological solutions associated with the switching of currents in transmission and distribution systems. Introduces and explains recent developments such as vacuum switchgear for transmission systems, SF6 environmental consequences and alternatives, and circuit-breaker testing. Provides practical guidance on how to deal with unacceptable switching transients. Details the worldwide IEC (International Electrotechnical Commission) standards on switching equipment, illustrating current circuit-breaker applications. Features many figures and tables originating from full-power tests and established training courses, or from measurements in real networks. Focuses on practical and application issues relevant to practicing engineers. Essential reading for electrical engineers, utility engineers, power system application engineers, consultants and power system asset managers, postgraduates and final year power system undergraduates.

Aerofoil Sections Friedrich Wilhelm Riegels 1961

The Automotive Chassis Jörn Reimpell 2001 This comprehensive overview of chassis technology presents an up-to-date picture for vehicle construction and design engineers in education and industry. The book acts as an introduction to the engineering design of the automobile's fundamental mechanical systems. Clear text and first class diagrams are used to relate basic engineering principles to the particular requirements of the chassis. In addition, the 2nd edition of 'The Automotive Chassis' has a new author team and has been completely updated to include new technology in total vehicle and suspension design, including platform concept and four-wheel drive technology.

Comprehensive Treatise of Electrochemistry Peter Horsman 2013-12-11 It is now time for a comprehensive treatise to look at the whole field of electrochemistry. The present treatise was conceived in 1974, and the earliest invitations to authors for contributions were made in 1975. The completion of the early volumes has been delayed by various factors. There has been no attempt to make each article emphasize the most recent situation at the expense of an overall statement of the modern view. This treatise is not a collection of articles from Recent Advances in Electrochemistry or Modern Aspects of Electrochemistry. It is an attempt at making a mature statement about the present position in the vast area of what is best looked at as a new interdisciplinary field. Texas A & M University John O'M. Bockris University of Ottawa Brian E. Conway Case Western Reserve University Ernest B. Yeager Texas A & M University Ralph E. White Preface to Volume 8 The past three decades have seen the rapid evolution of the transport aspects of electrochemical engineering into a formal part of electrochemistry as well as chemical engineering. With minor exceptions, however, this subject has not been systematically covered in any treatise or recent electrochemical text. The editors believe that the treatment in this volume will serve the function.

Macrocosm and Microcosm Rudolf Steiner

Surface Production Operations, Volume 1 Maurice Stewart 2011-03-31 The latest edition of this best-selling title is updated and expanded for easier use by engineers. New to this edition is a section on the fundamentals of surface production operations taking up topics from the oilfield as originally planned by the authors in the first edition. This information is necessary and endemic to production and process engineers. Now, the book offers a truly complete picture of surface production operations, from the production stage to the process stage with applications to process and production engineers. New in-depth coverage of hydrocarbon characteristics, the different kinds of reservoirs, and impurities in crude oil. Practical suggestions help readers understand the art and science of handling produced liquids. Numerous, easy-to-read figures, charts, tables, and photos clearly explain how to design, specify, and operate oilfield surface production facilities.

Leachate from Municipal Landfills James C. S. Lu 1985

Power System Stability Edward Wilson Kimbark 1956 Contents: Vol.1: Elements of Stability Calculations.-- Vol.2: power circuit breakers and protective Relays.-- Vol.3: synchronous machines

Natural Products Isolation Satyajit D. Sarker 2006 Natural Products Isolation: Second Edition presents a practical overview of just how natural products can be extracted, prepared, and isolated from the source material. Maintaining the main theme and philosophy of the first edition, this second edition incorporates all the new significant developments in this field of research. The chapters are divided into four distinct sections: introduction, extraction, chromatography, and special topics. This second edition provides substantial background information for natural product researchers and will prove a useful reference guide to all of the available techniques.

Business Analytics Jeffrey D. Camm 2020-02-25 Develop the analytical skills that are in high demand in businesses today with Camm/Cochran/Fry/Ohlmann's best-selling BUSINESS ANALYTICS, 4E. You master the full range of analytics as you strengthen your descriptive, predictive and prescriptive analytic skills. Real examples and memorable visuals illustrate data and results for each topic. Step-by-step instructions guide you through using Microsoft Excel, Tableau, R and JMP Pro software to perform more advanced analytics concepts. Practical, relevant problems at all levels of difficulty help you further apply what you've learned. With this edition you become proficient in topics beyond the traditional quantitative concepts, such as data visualization and data mining, which are increasingly important in today's analytical

problem-solving. Trust BUSINESS ANALYTICS, 4E to strengthen your understanding of today's analytic concepts. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Recommended International Code of Practice for Fresh Fish Joint FAO/WHO Codex Alimentarius Commission 1977

Thermal and Power Management of Integrated Circuits Arman Vassighi 2006-06-01 In Thermal and Power Management of Integrated Circuits, power and thermal management issues in integrated circuits during normal operating conditions and stress operating conditions are addressed. Thermal management in VLSI circuits is becoming an integral part of the design, test, and manufacturing. Proper thermal management is the key to achieve high performance, quality and reliability. Performance and reliability of integrated circuits are strong functions of the junction temperature. A small increase in junction temperature may result in significant reduction in the device lifetime. This book reviews the significance of the junction temperature as a reliability measure under nominal and burn-in conditions. The latest research in the area of electro-thermal modeling of integrated circuits will also be presented. Recent models and associated CAD tools are covered and various techniques at the circuit and system levels are reviewed. Subsequently, the authors provide an insight into the concept of thermal runaway and how it may best be avoided. A section on low temperature operation of integrated circuits concludes the book.

Orbital Refueling System (ORS) 1984